

Fujitsu recommends Windows® 7.

# Data Sheet

## Fujitsu CELSIUS W510 proGREEN selection

### Workstations

Performance that boosts your productivity

#### CELSIUS W510

The CELSIUS W510 proGREEN selection is a highly manageable workstation with the latest Intel® Xeon® processor and professional graphics that act together to deliver performance, energy efficiency and flexibility. This system is the ideal choice for business environments such as 3D CAD, financial forecasting and digital content creation, giving you the performance to boost your productivity.



#### Extremely powerful workstations

Get more done in less time

- The fastest available processor, graphics cards and hard disk drive

#### Noise-reduced system

Silent working environment

- Optimized thermal management, low-noise chassis and silent fans

#### Upgradeability

Minimum downtime in the event of rapid component upgrades

- Screw less access system design

#### Leading workstation application certification

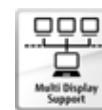
Maximum compatibility and performance with customer-preferred applications

- Full support for ISV applications and easy integration into existing IT environments

#### Easy and rapid hard disk changes

Quick and easy hard disk upgradability without opening the chassis

- ColdPlug access



# Components

<b>Processor</b>	Intel® Xeon® processor E3-1240 (4 Cores / 8 Threads, 3.30 GHz, 8 MB)
<b>Operating system</b>	
<b>Operating system</b>	Genuine Windows® 7 Professional 64-bit
<b>Operating system compatible</b>	Genuine Windows Vista® Business 64-bit Genuine Windows Vista® Business 32-bit Genuine Windows® XP Professional x64 Edition Genuine Windows® XP Professional Linux
<b>Operating system notes</b>	Red Hat® certification pending Novell® certification pending For some configurations third party drivers are currently not available or configuration restrictions may apply.
<b>Memory modules</b>	8 GB (2 module(s) 4 GB) DDR3, unbuffered, ECC, 1333 MHz, PC3-10600, DIMM
<b>Graphics add on cards (optional)</b>	ATI FirePro™ V4800, 1 GB, PCIe x16, DL-DVI-I, 2x DP NVIDIA Quadro™ 600, 1 GB, PCIe x16, DL-DVI-I, DP
<b>Hard disk drives (internal)</b>	SATA III, 7200 rpm, 1000 GB, 3.5-inch
<b>Hard disk notes</b>	One Gigabyte equals one billion bytes, when referring to hard disk drive capacity.
<b>Base unit</b>	CELSIUS W510
<b>Mainboard</b>	CELSIUS W510
<b>Mainboard type</b>	D3067
<b>Formfactor</b>	ATX
<b>Chipset</b>	Intel® C206
<b>Processor socket</b>	LGA 1155
<b>Processor quantity maximum</b>	1
<b>Memory slots</b>	4 DIMM (DDR3) ECC/non-ECC
<b>Supported capacity RAM (max.)</b>	32 GB
<b>Memory frequency</b>	1333 MHz
<b>Memory notes</b>	In configurations with 4 GB and more the visible memory may be reduced to approximately 3.5 GB or less (for 32-bit operating systems) and configurations with 8 GB the visible memory may be reduced to approximately 7.5 GB or less (depending on system configuration).
<b>LAN</b>	10/100/1000 MBit/s Intel® 82579 LM
<b>Integrated WLAN</b>	Optional (for Windows only)
<b>Audio codec</b>	Conexant CX20642
<b>Audio features</b>	5.1 surround sound, High Definition audio, Internal speaker supports audio playback
<b>I/O Controller</b>	
<b>Serial ATA total</b>	6
<b>thereof SATA III</b>	2
<b>thereof eSATA</b>	1
<b>SATA RAID support</b>	0, 1, 10, 5
<b>Interfaces</b>	
<b>Audio: in (rear)</b>	2
<b>Audio: out (rear)</b>	1
<b>Audio: in</b>	1
<b>Audio: out</b>	1
<b>Internal speakers</b>	1

**Interfaces**

<b>USB 2.0 total</b>	14
<b>USB front</b>	4, 1 USB 3.0
<b>USB rear</b>	8, 1 USB 3.0
<b>USB internal</b>	1 + 1
<b>VGA</b>	1 (depends on processor, via DVI to VGA adapter)
<b>DisplayPort</b>	1 (depends on processor)
<b>DVI</b>	1 (depends on processor)
<b>Serial (RS-232)</b>	1, (9 pin)
<b>Mouse / Keyboard (PS/2)</b>	2
<b>Ethernet (RJ-45)</b>	1
<b>Parallel</b>	1, optional
<b>eSATA</b>	1
<b>Interface Module notes</b>	Anytime USB charge functionality

**Drive bays**

<b>Drive bays total</b>	8
<b>3.5-inch internal bays</b>	4
<b>3.5-inch external bays</b>	2
<b>5.25-inch external bays</b>	2

**Slots**

<b>PCI-Express 2.0 x16</b>	1 x (312 mm) full height
<b>PCI-Express 2.0 x4 (mech. x16)</b>	1 x (210 mm) full height
<b>PCI-Express x1</b>	2 x (312 mm) full height
<b>PCI (32-bit / 33 MHz)</b>	3 x (312 / 170 mm) full height

**Graphics on board**

<b>Shared video memory</b>	up to 1759 MB
<b>TFT resolution (VGA)</b>	1024 x 768 pixel 1280 x 1024 pixel 1360 x 768 pixel 1440 x 900 pixel 1600 x 900 pixel 1600 x 1200 pixel 1680 x 1050 pixel 1920 x 1080 pixel 1920 x 1200 pixel
<b>TFT resolution (DVI)</b>	1360 x 768 pixel 1440 x 900 pixel 1600 x 900 pixel 1680 x 1050 pixel 1920 x 1080 pixel 1920 x 1200 pixel
<b>TFT resolution (DisplayPort)</b>	1360 x 768 pixel 1440 x 900 pixel 1600 x 900 pixel 1680 x 1050 pixel 1920 x 1080 pixel 1920 x 1200 pixel 2560 x 1440 pixel 2560 x 1600 pixel
<b>Graphics features</b>	Dual display support DirectX 10.1 HDCP support Open GL® 3.0 For multi monitoring mode, graphics card and integrated graphics run in parallel (Microsoft® Windows 7® only)

**Graphics on board****Graphics notes**

Tested resolutions, depending on display type additional resolutions and frequencies possible  
 Shared memory depending on main memory size and operating system  
 Resolution (color depth up to 32 Bit/pixel)  
 For TFT we recommend using 60Hz

**Electrical values**

<b>Power efficiency note</b>	power supply efficiency (at 230V; 20% / 50% / 100% load) : 87% / 90% / 87%
<b>Rated voltage range</b>	100 V - 240 V
<b>Rated frequency range</b>	50 Hz - 60 Hz
<b>Operating voltage range</b>	90 V - 264 V
<b>Operating line frequency range</b>	47 Hz - 63 Hz
<b>Max. output of single power supply</b>	300 W (CELSIUS W510); 500 W (CELSIUS W510power)

**Noise for standard configuration (HDD, ODD, FDD)**

<b>Noise emission</b>	According to ISO9296 (LpAm at bystander position)	According to ISO9296 (LpAm at bystander position)
<b>Idle mode</b>	18 dB(A)	18 dB(A)
<b>Office mode</b>	18 dB(A)	18 dB(A)
<b>Noise notes / description</b>	Actual noise emissions may vary depending on configuration	Actual noise emissions may vary depending on configuration

**Dimensions / Weight / Environmental**

<b>Dimensions (W x D x H)</b>	186 x 481 x 430 mm
<b>Operating position</b>	Vertical / horizontal
<b>Weight</b>	16 kg
<b>Weight notes</b>	Actual weight may vary depending on configuration
<b>Operating ambient temperature</b>	10 - 35°C
<b>Operating relative humidity</b>	5 - 85 % (relative humidity)

**Compliance**

<b>Product</b>	CELSIUS W510	CELSIUS W510power
<b>Model</b>	MTB-D3067	
<b>Germany</b>	Blauer Engel / Blue Angel GS	
<b>Europe</b>	CE Nordic Swan	
<b>USA/Canada</b>	FCC Class B cCSAus	
<b>Global</b>	RoHS (EU & China) ENERGY STAR® 5.0 EPEAT® Silver (dedicated regions) Medical EMC standard IEC60601-1-2 in combination with medical kit	
<b>Compliance notes</b>	Energy Star compliance may vary depending on actual configuration	
<b>Compliance link</b>	<a href="https://sp.ts.fujitsu.com/sites/certificates/default.aspx">https://sp.ts.fujitsu.com/sites/certificates/default.aspx</a>	

**Security**

<b>Physical security</b>	Kensington Lock support Eye for padlock Seal option Intrusion switch Optional: Integrated cabinet lock
<b>System security</b>	Boot sector virus protection Write protect option for the Flash EPROM Embedded security (TPM 1.2) Control of all USB interfaces External USB ports can be disabled separately Control of external interfaces

<b>Security</b>	
<b>User security</b>	Hard disk password User and supervisor BIOS password Optional: Access protection via SmartCard reader Optional: SmartCase Logon+
<b>Additional Software</b>	
<b>Additional software (preinstalled)</b>	Nero 9 Essentials XL Norton Internet Security (incl. Firewall) 60 days version Microsoft® Office Starter: reduced-functionality Word and Excel® only, with advertising. No PowerPoint® or Outlook®. Buy Office 2010 to use the full-featured software.
<b>Additional software (optional)</b>	Recovery DVD for Windows® Recovery DVD2 for Office2010s Drivers & Utilities DVD (DUDVD) EraseDisk
<b>Manageability</b>	
<b>Manageability features</b>	DeskUpdate Driver management
<b>Manageability type</b>	DeskView 10.x client management including:
<b>DeskView features</b>	On/Offline remote client management Detailed system inventory management and reports BIOS Management Remote power management System notifications Security Remote Control DeskView Helpdesk Integration
<b>Supported standards</b>	WMI BootP (made4you) PXE
<b>Manageability link</b>	<a href="http://ts.fujitsu.com/solutions/it_infrastructure_solutions/manageability/featurefinder.html">http://ts.fujitsu.com/solutions/it_infrastructure_solutions/manageability/featurefinder.html</a>
<b>Input device / components</b>	
	Optical USB tilt wheel mouse
<b>Input devices (optional)</b>	Optical USB/PS2 tilt wheel mouse Space Explorer USB Keyboard
<b>Warranty</b>	
<b>Maintenance and Support Services - the perfect extension</b>	
<b>Service Weblink</b>	<a href="http://ts.fujitsu.com/Supportservice">http://ts.fujitsu.com/Supportservice</a>

# More information

## Fujitsu platform solutions

In addition to Fujitsu CELSIUS W510, Fujitsu provides a range of platform solutions. They combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships.

### Dynamic Infrastructures

With the Fujitsu Dynamic Infrastructures approach, Fujitsu offers a full portfolio of IT products, solutions and services, ranging from clients to datacenter solutions, Managed Infrastructure and Infrastructure as-a-Service. How much you benefit from Fujitsu technologies and services depends on the level of cooperation you choose. This takes IT flexibility and efficiency to the next level.

### Computing Products

[www.fujitsu.com/global/services/computing/](http://www.fujitsu.com/global/services/computing/)

### Software

[www.fujitsu.com/software/](http://www.fujitsu.com/software/)

## More information

Learn more about Fujitsu CELSIUS W510, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website. <http://ts.fujitsu.com/celsius>

## Fujitsu green policy innovation

Fujitsu Green Policy Innovation is our worldwide project for reducing burdens on the environment. Using our global know-how, we aim to resolve issues of environmental energy efficiency through IT. Please find further information at <http://www.fujitsu.com/global/about/environment/>



## Copyrights

All rights reserved, including intellectual property rights. Changes to technical data reserved. Delivery subject to availability. Any liability that the data and illustrations are complete, actual or correct is excluded. Designations may be trademarks and/or copyrights of the respective manufacturer, the use of which by third parties for their own purposes may infringe the rights of such owner. For further information see [http://ts.fujitsu.com/terms\\_of\\_use.html](http://ts.fujitsu.com/terms_of_use.html). Copyright © Fujitsu Technology Solutions

## Disclaimer

Technical data are subject to modification and delivery subject to availability. Any liability that the data and illustrations are complete, actual or correct is excluded. Designations may be trademarks and/or copyrights of the respective manufacturer, the use of which by third parties for their own purposes may infringe the rights of such owner

## CONTACT

FUJITSU Technology Solutions

Website: <http://ts.fujitsu.com>

2011-10-27 CE-EN

All rights reserved, including intellectual property rights. Changes to technical data reserved. Delivery subject to availability. Any liability that the data and illustrations are complete, actual or correct is excluded.

Designations may be trademarks and/or copyrights of the respective manufacturer, the use of which by third parties for their own purposes may infringe the rights of such owner.

For further information see [http://ts.fujitsu.com/terms\\_of\\_use.html](http://ts.fujitsu.com/terms_of_use.html)

Copyright © Fujitsu Technology Solutions